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FEBRUARY 1992 • A CAHNERS PUBLICATION

SECURITY®

FOR BUYERS OF PRODUCTS, SYSTEMS AND SERVICES

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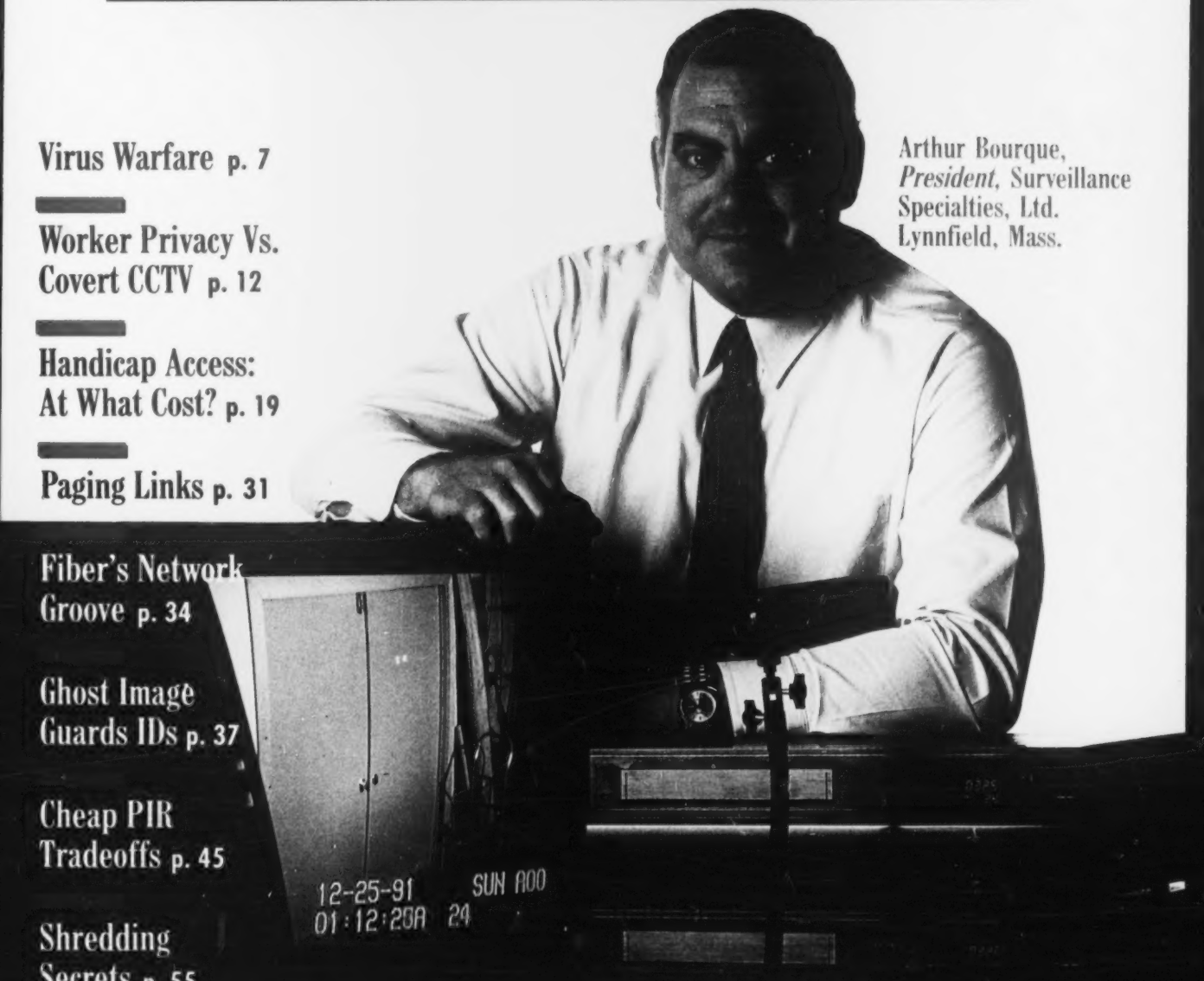

Arthur Bourque, *President*, Surveillance Specialties, Ltd. Lynnfield, Mass.

VIDEO COVERS AMERICA'S CUP ENTRY

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On the Cover: Arthur Bourque, president, Surveillance Specialties, Ltd., Lynnfield, Mass., advises on CCTV surveillance for America's Cup race entry. **10**

The federal Disabilities Act has security links. See coverage in Access Control, Fire Protection and Screening.

Shred before your throw out paperwork. It privacy-protects documents, says Boston judge. **55**

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NEWS

Reports and incidents that impact asset protection.

Pulse Guns That Kill Computers

The country breaks under colossal computer failures, massive virus attacks and magnetic bombings of installations. It's computer warfare and the topic of a "think novel" called Terminal Compromise by Winn Schwartau.

Schwartau believes that rogue nations, multi-national corporations, special interest groups and terrorists are using more effective weapons. "Off-the-shelf technology can put competitors out of business."

Magnetic Bullets

Electromagnetic advances, for example, are a particular threat. "There's still no legal status about electromagnetic eavesdropping."

Even more shocking, the computer security expert-turned-author, who now consults for STX, Vienna, Va., sees a future of terrorists armed with High Energy Radio Frequency (HERF) guns that invisibly blow up computer innards.

As computers continue to network, Schwartau pointedly believes the protectors (government agencies, business executives, security experts) are splintering into warring camps. Contact STX Information Security Group, Vienna, Va., (703) 827-6600 for more details. ■

NCPC Honors ADT

The National Crime Prevention Council (NCPC) and the Bureau of Justice Assistance at the U.S. Justice Department recently honored ADT Security Systems, Parsippany, N.J., for support of the Council's National Citizens' Crime Prevention campaign.

ADT's Jay Stuck (second, left) with Jimmy Gurule and Jerry Regier of Justice and Jack Calhoun of NCPC.

ADT, according to Corporate Communications Director Jay Stuck, has helped bring crime prevention information to communities nationwide through a series of "Spotlight Awards" ceremonies and "Corporation Action Kits," filled with tips on workplace and home protection. ■

Disabilities Act Alters Security

The Americans with Disabilities Act kicks in soon. It's a civil rights law, enforced primarily through civil action. Local building codes meeting new federal guidelines, however, can be certified by the Justice Department.

More details:

The Architectural and Transportation Barriers Compliance Board; 1111 18th Street N.W. - Suite 501; Washington, DC 20036; (202) 653-7843.

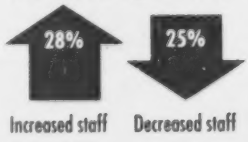
The Door and Hardware Institute; 14170 Newbrook Drive; Chantilly, VA 22021; (703) 222-2010.

Corbin Architectural Hardware; 225 Episcopal Road; Berlin, CT 06037; (203) 225-7411. ■

IN BRIEF

Thorn Automated Systems, Inc. of Westlake, Oh., has appointed Noel E. (Ed) Morgan as Vice President of Research & Development (R&D). ☐ **North Carolina has until April** to improve job and health safety enforcement, or the U.S. Labor Department will take over. Officials are under fire after the Hamlet, N.C., chicken processing plant blaze that killed 25 people. ☐ **Unclear videotape from a security camera** was the reason a Chicago-area judge acquitted two police officers in a $7,000 restaurant robbery. ☐ **A plan to let corporations send electronic filings** to the Securities and Exchange Commission is stalled because of the fear of inadequate security. ☐ **TWA is re-evaluating its program** of hiring inmates of the California Youth Authority as ticket agents, since one 20-year-old defrauded credit card holders. ☐ **Robert Maxwell, the media giant who took a deadly tumble** off his yacht and whose companies tumbled because of massive internal fraud, probably used security firms to wiretap his own financial officers. Maxwell's daughter allegedly also ordered document shredding.

SECURITY STAFFING
Percent Having Personnel Changes in 1991



Source: SECURITY Magazine

Twenty-eight percent of security departments added people in 1991, but nearly as many departments had to cut people last year.

Computer Weapons:
HERF, EMP/T, Viruses, Keyboard intercepts, Electromagnetic eavesdropping, Voice mail hackers, Modem hackers.

Winn Schwartau predicts new tech weapons will harm America.

A HERF gun is one of many emerging tech weapons aimed at computers and the information they contain.

Quick Response Emerging as a Sprinkler Standard

It's a logical marriage: liability concerns and quick response automatic fire sprinklers.

These sprinklers have special features. Their operating mechanisms — which have glass bulbs or soldered links — are less dense and offer significantly greater thermal sensitivity than standard water sprinklers. Water gets to fires faster.

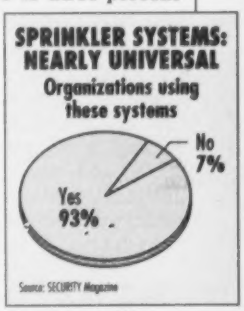
Less Chance for Losses

Quick response commercial sprinklers are part of the larger "fast response" family, which includes residential fast response and early suppression fast response sprinklers (ESFR). They are subject to the same testing criteria as standard sprinklers; the difference is greater sensitivity to heat.

"Generally speaking, the industry is going toward quick response sprinkler heads," says Jim Mikkila, product manager, Ascoa Fire Systems, Cleveland. "So far, they're typically used where life safety is the greatest concern, such as hospitals, nursing homes and office buildings. Elements are about 25 percent more expensive, but head and valve cost is only about two to three percent of the typical sprinkler project cost."

Automatic fire sprinkler systems which use quick response components require special hydraulic design.

"If people just run out and replace their standard sprinkler heads, they can make a mess of their system," says John Ramsey, director of technical service, Viking Corp., Hastings, Mich. "You must verify the hydraulics of the system and spacing of the sprinklers so you can meet minimal flow requirements for the area you're trying to cover." — *Brenda Moss* ■



Among sprinkler system installations, 75 percent of installed base are facility-wide.

For More Information

Ascoa Fire Systems	Circle 79
Central Sprinkler Corp.	Circle 80
Grinnell Corp.	Circle 81
National Fire Sprinkler Assoc.	Circle 82
Viking Sprinkler	Circle 83

On the Market

Detector Electronics Corp., Minneapolis, sells the Det-Tronics C7098B, a single frequency infrared (IR) optical flame detector that monitors its optical surfaces and electronics. It ignores sources such as arc welding, lightning and the sun. The housing is water- and dust-tight.
For information circle **84**

Tempilabel temperature indicating labels from **Tempil, Big Three Industries Inc.,** South Plainfield, N.J., turn black when a ladder has been exposed to temperatures above 300° F. Aluminum softens at this temperature. The UL-approved labels are applied to sections of ladders.
For information circle **85**

Real Liability Concern With Fire Integration

I've seen a lot of changes during the quarter-century I've spent in the fire industry, but the biggest change has been in liability.

If you don't have access to building codes and NFPA, UL and FM regulations and/or documents, you are doing your business a disservice.

Bob Ruyle

Fire systems are becoming integrated into large office complexes. This is an issue that the fire industry views with concern. Life safety systems should be separate from all other systems — and with good reason. Fire-related liability is much different than access control- or energy management-related liability. The integration of systems is gaining acceptance, however. A priority among fire engineers is for the fire alarm system to stand alone when any other integrated system parts go down.

Today it's not uncommon to find several standalone panels networked in a large integrated system. Make sure to account for transient voltage suppression and proper battery backup for all systems.

If you are looking to integrate new systems, be sure they are listed for such integration and that all equipment connected to that system is compatibly listed by the proper testing laboratories. It takes specially-trained technicians to work on large integrated systems, so make sure technicians are factory-trained. Test equipment is also different; again be sure maintenance personnel have the proper equipment and are trained in its use.

You can't afford mistakes when it comes to fire alarm installation and maintenance. One mistake can destroy a lot of property; one mistake can cost a lot of lives. — *Bob Ruyle*

Bob Ruyle is a fire and security consultant. He serves on national and local code-making bodies and conducts seminars on fire and related topics. ■

True Integration: It's in the Software

Now more than ever, security systems are facilities tools, and software is the key.

David Tolensky, corporate security supervisor at Chicago-based Morton International, knows the it well.

"Our chief goal was to find software and a system that would minimize manpower as we moved to a larger facility," he explains. "In the process, we were able to use applications that went beyond security." The total, integrated approach was designed by JWP Electronic Systems, Purchase, N.Y.

"Our integration goal: software and systems that minimize manpower requirements," reports David Tolensky of Chicago-based Morton International.

Software Controls

For example, access control and alarm monitoring software also control a Motorola (Schaumburg, Ill.) radio/telephone interconnection system. Security personnel can answer their phone via radio. The Software House (Cambridge, Mass.) system also connects a remote paging system from Visiplex of Deerfield, Ill. Security personnel receive a 36-character readout of alarms while away from the central monitor.

Tolensky explains that the latest off-the-shelf software they chose from Software House offered big savings.

"We were paying our data processing people $30,000 to $40,000 a year to run our time and attendance/access control programs," he says. "Now we can run it all on the same DEC computer that runs access control and alarm monitoring, and print out reports on laser printers we already had."

The Software Platform

Clearly, Morton's requirements to "plug in and play" their existing and new facility equipment typifies the driving force that is moving security toward true systems integration.

"People have made investments in hardware. Now they want it to do more, or add to it, or connect it to something else," says Michael Pilato, director of marketing for Software House. "Sometimes software has to be custom-designed, but more often, those needs and requirements become standard."

For security equipment buyers, all this translates into a change of consciousness — from making hardware-driven decisions to making sofware-driven decisions.

"Look for flexibility," Tolensky says. "If a program isn't changeable, if the supplier is rigid, then you're limiting yourself and making a mistake."

Covering System Levels

Remember that security software involves different levels — at readers, field panels and the CPU, for example, says Vic White, president, Receptors Inc., Torrance, Calif. "At the simplest levels, off-the-shelf intelligence is fine, but more sophisticated programming may have to be tailored."

And always look for portability and connectivity, the ability for the software to work with what you've got now, and what you might want to add in the future. — *Kerry Lydon* ■

INTERFACE, INTEGRATE
Percent of Users with Connections Between:

Security, life safety	40%
Access control, CCTV	30%
Access, CCTV, intrusion	27%
Security, human resources	27%
Security, facilities management	19%
Access, photo ID or video ID	17%
Access, time and attendance	15%
Multi-tasking exists	9%
Access, transaction processing	5%
Access, process control	2%

Source: SECURITY Magazine

The trend is toward more connection among separate systems.

For More Information

JWP Electronic Systems	Circle 96
Motorola	Circle 97
Receptors Inc.	Circle 98
Software House	Circle 99
Visiplex	Circle 100

Paging, Monitor Link Frees Site Officers

His aim: an alarm monitoring system that lets officers move around to eliminate after-hours, fixed-place alarm monitors. "Mobile officers could respond to emergencies or escort tenants while continuing to monitor our system," says Dave Polensky, corporate security supervisor at Chicago-based Morton International.

Best known for its salt, Morton International also makes specialty chemicals and is a leading maker and marketer of car airbag inflators. Headquarters is 15 floors of a 36-story high-rise in the Chicago loop area.

With a clear goal, Polensky examined numerous vendors, including Visiplex Inc., of Deerfield, Ill.

"I was somewhat apprehensive at first," says Polensky, "because the system was new to this country, though it had been proven in Australia."

Paging/monitoring Interface

The Visiplex system interfaces with alarm monitoring. On detecting a signal, a central computer downloads a message directly to the paging system, alerting staff anywhere in the building. The pager's "read" button provides data on the nature and location of the alarm. Business days, officers control

Paging linked to monitoring increases mobility, says David Tolensky.

visitor access at the monitoring desk yet keep the pager on as another alert.

"I think it's paid for itself in the first nine months of operations, certainly the first year," Polensky remarks.

Triggered by special sensors, an automatic alarm monitoring paging feature, unique to Visiplex Plus, transmits user preprogrammed messages to designated personnel. Such sensors can fit to machines, alarm and security systems, emergency call points, wireless alarm transmitters and other switching devices. The system stores up to 1,000 "canned" messages, transmitted manually or automatically by external devices. The system accepts up to 1,000 contact and voltage level shift inputs.

After-hours Reduction Possible

"Our alarms tie to a computer which also governs the access control card key system," says Polensky. With alarm monitoring more portable, security could remove an after-hours manned computer station.

Visiplex pagers, similar to other paging devices, also have: alphanumeric output, several screens and more memory. The system shows pages on a 32-character screen. Continued pressure on the "read" button scrolls messages. The pager is about 2 inches by 3 inches by about ½-inch deep. — *Compiled by Edward Feit and Bill Zalud* ■

For More Information

Visiplex Corp. Circle 101

Office Facilities Take Top-down Approach

The energetic entry of control systems manufacturers and integrators into the standalone world of security could pack an influential, top-down wallop.

Building automation, now more possible, offers office high rise advantages. "It's cohesive and seamless," says Cindy Embretson, market sales manager, fire/security, Honeywell Inc., Minneapolis.

Window to More Things

Today's advanced communications, information management and integration technologies take building automation to a higher level, what Embretson describes as "single window" intercommunication and interaction that performs two or more tasks.

Common is a local area network (LAN) and, more often today, a graphics user interface (GUI). Also important: the way various subsystems fit together. "Security should be integral, not a stepchild," says Jerry Adams, national marketing manager, Diebold, Inc., North Canton, Ohio.

Still, such building automation approaches aren't for everyone.

Security integrators and access control manufacturers are working upward, offering LANs with connection to field devices and control elements. The hangup, according to integration experts, has always been standards and protocols. Some controls firms developed their own protocols and languages, while others, as well as independent integrators, depend more on off-the-shelf operating system platforms.

"(Proprietary systems) are good for security," adds Adams. "But they're a building automation drawback." Current favorites: the UNIX family and DOS Windows, which Honeywell's DeltaNet, for example, uses.

Packages Attractive

Beyond technology, top-down building automation offers the simplicity of one-sourcing. There's ease of change, says Honeywell's Embretson. Tomorrow's more complex integrated systems are "ongoing operations where it's common to enhance, replace and upgrade."

For example, newer systems use universal I/O modules for digital, analog, temperature, pulse, says Barry Sanders of Andover Controls, Andover, Mass.

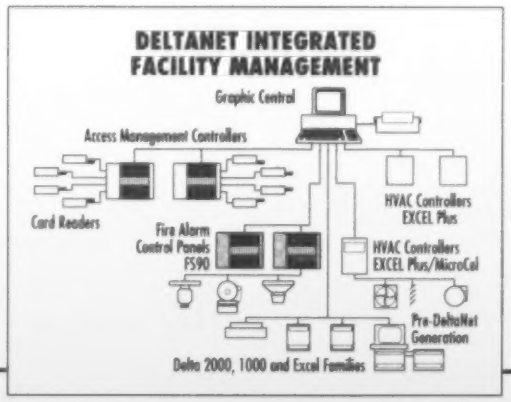
The future is obvious: fewer, more powerful display and control terminals and more at the source. For instance, Milwaukee's Johnson Controls Metasys now has zone terminal monitors.

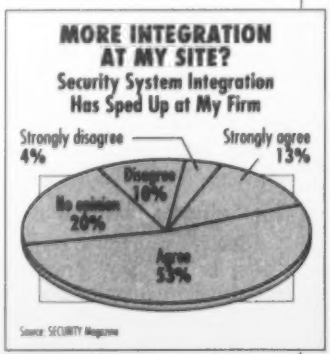
Field devices and control elements will move downward. "We will go room to room to provide very tailored controls," predicts Embretson. ■

For More Information

Andover Controls Corp.	Circle 104
Diebold	Circle 105
Honeywell	Circle 106
Johnson Controls	Circle 107
Logiplex	Circle 113

Honeywell's building automation approach stresses a window into intercommunications and interaction.





More than six in 10 buyers see strong system integration.

Disabilities Act Imposes Few Job Screening Limitations

The Americans With Disabilities Act (ADA) influences more than access and safety needs. The legislation affects pre-employment screening procedures and decisions, as well.

SECURITY Magazine asked experts in employment law to analyze how ADA governs screening procedures. Addressing these issues below are David Arnold, Ph.D. and Alan Thiemann. Arnold is general counsel and vice president of research for Reid Psychological Systems, Chicago, and general counsel for the Association of Personnel Test Publishers. Thiemann, a partner in the law firm, Taylor, Thiemann & Aitken, Alexandria, Va., serves as legislative counsel for the Association of Personnel Test Publishers.

Q: How does ADA define a disabled person?

A: The law defines a disabled person as one who has:

- A physical or mental impairment that substantially limits one or more major life activities,
- Has a record of such impairment or
- Is regarded as having such an impairment.

The EEOC defines an impairment as "any mental or psychological disorder such as mental retardation, organic brain syndrome, emotional or mental illness and specific learning disabilities." These guidelines, as well as prior case law under the Rehabilitation Act, exclude common personality traits.

Q: What's the relationship between ADA and pre-employment screening?

A: ADA does not restrict the timing and use of psychological tests (e.g. integrity, personality, attitude, etc.). Instead, it ensures that employers use non-discriminatory and valid selection measures.

Q: The ADA provisions state that medical exams may not take place at the pre-offer stage. Are psychological tests considered medical exams under ADA?

A: No. Commonly-used psychological tests are not medical in nature, nor do they identify disabilities. They are intended to identify personality traits.

Q: Are there limits to the personality traits employers may legally inquire about at the pre-employment stage?

A: There is one testing limitation. The test may not disclose a mental or psychological disorder. Tests that are intended to disclose impairments may be used only after a conditional employment offer is made. The majority of tests commonly used for pre-employment purposes do not disclose impairments. ■

Partnership Offers Site Drug Screening

There's a new drug screening service — Environmental Narcotics Detection Service (ENDS) — that's a unique partnership of two industry giants.

ENDS helps employers detect traces of illegal drugs in the work place. Pinkerton Security & Investigation Services collects test samples; Woburn, Mass.-based Thermedics analyzes them. Clients receive results within 48 hours.

Thermedics manufactures the Sentor detector, a vapor drug detection instrument which draws in samples of air and looks for the presence of narcotics.

ENDS identifies traces of drugs in the work place — not individual users.

"We're stressing that this is a work place — not a work force — device," Kevin O'Connor, senior vice president for Pinkerton, tells SECURITY Magazine. "We're not trying to identify those associated with elicit drugs.

"ENDS is a management information tool — it complements other measures, and we'll help clients narrow the focus for the next step."

Call 1-800-232-PINK. ■

For More Information

Pinkerton/ENDS	Circle 206
Thermedics	Circle 207

On the Market

A phone call now tells supervisors if employees report to work while under the influence of drugs or alcohol. **Impairment Measures Inc.**, Houston, offers the Vocalyzer, a real-time, telephone-based service which identifies intoxication. Supervisors dial Impairment Measures; subjects follow recorded instructions which ask them to recite specific words and numbers. A computer analyzes the voice pattern and immediately provides employers with an impairment reading. Fatigue, stress and other variables don't affect results.

For information circle **208**

Carco Research announces Zipcrim, a do-it-yourself national employee screening software product and service. The Zipcrim database provides employers with a fast, easy and inexpensive method for obtaining criminal records. Users need an IBM-compatible PC (AT or higher) and modem, a printer and MS-DOS 3.2 or higher system software. Record search results are available for PC-viewing or printing within 24 hours. Users pay a one-time software charge, plus a set fee per search. Clients use their PC for other tasks when they are not using the service.

For information circle **209**

EMPLOYEE SUBSTANCE ABUSE
Abuse evidence: 1990-91

Source: SECURITY Magazine

Drug use among employees appeared to level-off in the mid-1980s. However, pressure is building on alcohol abuse.

ZALUD REPORT

Trends and directions for buyer planning.

High Rise Security and Tenant Services

Building owners and managers, facing a soft real estate market and dropping per foot rentals, are fighting back with integrated systems that save money while offering value-added, tenant-tailored, billable services.

"We optimize the management of the facility," points out Cindy Embretson of Minneapolis-based Honeywell Inc.

Driving such applications: computer and communications advances — as well as the growing tech comfort of local authorities with jurisdiction, not the greatest advocates of integration.

It also brings together (some say colliding) approaches — security and building automation. They both share a growing range of products and services, including direct digital control (DDC) systems, field devices (sensors and transducers), control elements (valves and dampers), engineering and design services and installation and maintenance services.

What deserves careful consideration — beyond smooth systems and energy-cost savings — is the need for a secure and safe environment. "Security should be integral (in integrated systems), not a step child," says Jerry Adams, national marketing manager, Diebold, Inc., North Canton, Ohio. ■

High Rise Office Segregates Databases for Tenant Tailoring

In high rises, a security system that simplifies custom tenant service has great attraction.

Philadelphia's Two Logan Square, a 34-story, multi-tenant office tower managed by JMB Properties Urban Company, has integrated access and elevator control, closed-circuit television (CCTV) and voice intercom.

Yet one feature — fully-segregated databases — permits one master to serve two autonomous users: the base building and an anchor tenant. Designed and installed by the Philadelphia Office of Electronic Services International (ESI), a New York City-based systems integrator, the distributed system has Wiegand-type "key readers" networked with a DEC Microvax 2000 as the main controller. Software House (Cambridge, Mass.) C-CURESystem 1 Plus software offers the "segregated databases."

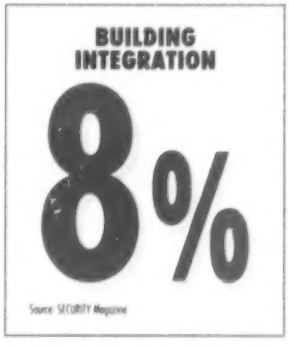
The building's safety and security manager handles the building database. The controller concurrently runs another fully dedicated database, managed by a tenant law firm that occupies the top ten floors.

Wiegand Key Ring Device

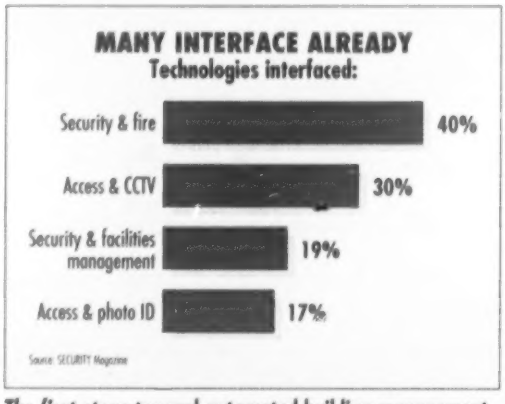
About 2,000 high rise workers carry a plastic key-like device instead of a card. These Wiegand "keys," on a key ring, work with key readers. The key ring device is more "business-convenient" for multi-tenant high rise office buildings. The technology permits other allocation tasks: automated recording of photocopy use and long-distance telephone banks, for instance.

Key readers are at the door to a pedestrian bridge which connects a parking facility with the building. Readers are also at perimeter doors, the main lobby's security console for automated, after-hours log in/out, on elevators and at other locations. The law firm has seven key readers securing its space.

With 25 current alarm points, the system can handle up to 1,024. There are 240 operator passwords, 128 time intervals, 126 (6x) different access levels, 1,000 alarm conditions, 21 alarm priorities displayed as maps with English text response, 100 different door groupings, 128 time codes and 64 operator privileges. — *Compiled by Jim Ladesich and Bill Zalud* ■



Among respondents, 8 percent have some type of integrated or automated building management system.



The first steps toward automated building management systems are seen in many office buildings today.

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